

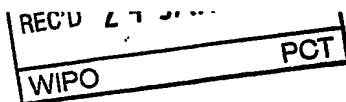
# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference P13946-oll	<b>FOR FURTHER ACTION</b>  See Form PCT/IPEA/416	
International application No. PCT/EP2004/053149	International filing date (day/month/year) 29.11.2004	Priority date (day/month/year) 12.12.2003
International Patent Classification (IPC) or national classification and IPC H04M1/725		
Applicant SONY ERICSSON MOBILE COMMUNICATIONS AB et al.		
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p style="margin-left: 20px;">a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau a total of 6 sheets, as follows:</p> <p style="margin-left: 40px;"><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p style="margin-left: 40px;"><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>		
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input checked="" type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input checked="" type="checkbox"/> Box No. VIII Certain observations on the international application</p>		
Date of submission of the demand  10.10.2005	Date of completion of this report  20.01.2006	
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized Officer  de Biolley, L  Telephone No. +31 70 340-3137  	

**INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY**

International application No.  
PCT/EP2004/053149

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**Box No. I Basis of the report**

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1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements\*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

**Description, Pages**

1-18 as originally filed

**Claims, Numbers**

1-36 received on 10.10.2005 with letter of 05.10.2005

**Drawings, Sheets**

1/7-7/7 as originally filed

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
  - ☐ the claims, Nos.
  - ☐ the drawings, sheets/figs
  - ☐ the sequence listing (*specify*):
  - ☐ any table(s) related to sequence listing (*specify*):
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
  - ☐ the claims, Nos.
  - ☐ the drawings, sheets/figs
  - ☐ the sequence listing (*specify*):
  - ☐ any table(s) related to sequence listing (*specify*):

\* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY**

International application No.  
PCT/EP2004/053149

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**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

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1. Statement

Novelty (N)	Yes: Claims	1-33
	No: Claims	34-36
Inventive step (IS)	Yes: Claims	1-33
	No: Claims	34-36
Industrial applicability (IA)	Yes: Claims	1-36
	No: Claims	

2. Citations and explanations (Rule 70.7):

**see separate sheet**

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**Box No. VII Certain defects in the international application**

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The following defects in the form or contents of the international application have been noted:

**see separate sheet**

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**Box No. VIII Certain observations on the international application**

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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

**see separate sheet**

**Re Item V.**

**1 Reference is made to the following documents:**

- D1: US-A-5 301 360 (GOLDBERG ARTHUR M) 5 April 1994 (1994-04-05)  
D2: US-A-5 859 522 (THEOBALD DAVID J) 12 January 1999 (1999-01-12)

**2 Independent claim 1**

2.1 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows (see D1, col. 1, line 56 to col. 2, line 20 and col.3, line 56 to col. 4, line 9): Method for identifying a communication interface of an electronic unit attached to a connector on an electronic device, comprising the steps of :

- generating a voltage pulse in said device on a pin of said connector
- measuring the resulting voltage on another pin of said connector
- comparing the measured voltage with predetermined voltage criteria
- performing communication interface identification of said unit dependent on said comparison

The subject-matter of claim 1 differs from this known method in that the voltage measurement is performed on the same pin of the connector.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

2.2 The problem to be solved by the present invention may be regarded as how to perform identification of a communication interface on fewer pins of a system connector and consequently being able to use the same pins for different communication interfaces.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

No prior art document suggests or hints at the feature of identifying an accessory unit attached to a connector of an electronic device by generating a voltage pulse in the electronic device on a pin of the connector, measuring the voltage on the same pin and identifying the accessory unit by comparing the measured voltage with a predetermined criteria.

**3 Independent claims 24 and 25**

The same reasoning applies, *mutatis mutandis*, to the subject-matter of the corresponding independent claims 24 and 25, which therefore are also considered new and inventive.

**4 Claims 2-23 and 26-33 are dependent on claim 1 or 25 and as such also meet the requirements of the PCT with respect to novelty and inventive step.**

**5 Independent claim 34**

Claim 34 relates to an electronic circuit comprising an electric load devised to generate a dynamic voltage response on a pin when subjected to a voltage pulse on said pin. Any resonant circuit (eg. RC or RLC circuit) anticipates this claim. The subject-matter of said claim is therefore not new Article 33(2) PCT.

**6 Dependent claims 35 and 36**

Dependent claims 35 and 36 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step because the features of said claims appear to be design measures normally expected by the person skilled in the art.

**Re Item VII.**

**1** Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D2 is not mentioned in the description, nor are these documents identified therein.

**2** Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT.

**3** The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

**Re Item VIII.**

- 1 The features "wherein said identity is dependent on ... / is determined by ..." in the apparatus claims 27 and 29 relate to a method of using the apparatus rather than clearly defining the apparatus in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT.